

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/982,269	10/17/2001	Benoit Mory	PHFR 000110	7787
24737 7590 07/20/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 PRIADCLUST MANOR NV 10510			EXAMINER	
			STEVENS, ROBERT	
BRIARCLIFF MANOR, NY 10510		•	ART UNIT	PAPER NUMBER
			2162	,
·				
	•		MAIL DATE	DELIVERY MODE
			07/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		·			
•	Application No.	Applicant(s)			
Office Action Community	09/982,269	MORY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Robert Stevens	2162			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 A	oril 2007.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		λ			
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers	•	•			
9) The specification is objected to by the Examine	r				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Art Unit: 2162

DETAILED ACTION

1. The Office withdraws the previous objections to the claims for informalities, in light of the amendment. However, another informality objection was set forth below, in light of the amendment. With the exception of claim 9, the Office withdraws the previous rejections of the claims under 35 USC §101, in light of the amendment. The Office maintains the previous rejections of the claims under 35 USC §§112-1st and -2nd paragraphs and 103(a), in light of the amendment.

Response to Arguments

2. Applicant's arguments filed 4/27/2007have been fully considered but they are not persuasive.

Regarding the previous objection to the claims for various informalities, the Office has withdrawn these objections.

Regarding the previous rejections of the claims under 35 USC §112-1st paragraph,

Applicant argues on page 7 that the specification indicates that at least two bits are sufficient to control the whole structure, and thus these rejections were improper.

The Office respectfully disagrees. First, it is noted that the specification passages in question are found from page 19 line 33 through page 20 line 4 (or paragraph [0165], including the "Control bits" table, found in US patent Application Publication US 2002/0138517). The

rejections stated that specification seemed to indicate that, contrary to the claim language, at least four (4) control bits are required to produce a working result of Applicant's subject matter. This passage seems to support the Office's position. First, this passage states that "[a]ll keys and indexes are integer values coded using a variable number of bytes." Emphasis added. At a minimum, 1 key and 1 index appear to be required. Additionally, the sentence relied on by Applicant states that each of these "bytes" (emphasis added) is controlled by "the 2 most significant bits". The word "them" in this passage relied on by Applicant refers to the plural term "bytes", not the singular term "key". Therefore it appears that at least 4 (i.e., 2 control words per minimum of 2 bytes) control bits are required.

Regarding the previous rejection of claim 3 under 35 USC §112-2nd paragraph, Applicant argues on page 8 that the limitation recited in the body of the claim directed to "scanning" is equivalent to "decoding", as recited in the claim preamble.

The Office respectfully disagrees. Scanning and decoding are not equivalent operations. Scanning merely infers reading in or a parsing process, at best. Decoding, however, reflects a transformation process. Thus these terms are not equivalent.

Regarding the previous rejection of claim 9 under 35 USC §112-2nd paragraph, Applicant states on page 8 that the claims was amended to reflect that a signal element includes a binary fragment.

Art Unit: 2162

The Office notes that this was not among the problems indicated in the 112-2nd paragraph rejection of claim 9. The Office notes that Applicant's amendment and argument (re: claim 9) is further evidence that claim 9 is also nonstatutory under 35 USC §101.

Regarding the previous rejection of claims 1-2, 5, 7 and 9 under 35 USC §103(a), Applicant states on page 8 that Applicant disagrees with the Office's reasons for the rejection of the claims. Applicant further appears to indicate that the motivational statement set forth in the previous Action was deficient.

The Office notes that no rationale supporting Applicant's positions (regarding the previous rejection and the previous motivational statement) was set forth. It is further noted, however, that Applicant's statement ("Action merely states ...") is incorrect, at least because the Office has also evidenced motivation as being proper because the references are of the same field of endeavor, namely XML document processing.

Regarding the previous rejection of claims 3-4, 6, 8 and 10 under 35 USC §103(a). Applicant appears to indicate on pages 9-10 that the Office has previously set forth an unsupported statement that motivation exists.

The Office respectfully disagrees. It appears that Applicant merely disagrees with the Office, but provided no supporting rationale for Applicant's position. It is further noted, however, that Applicant's statement ("Action merely states ...") is incorrect, at least because the Office has also evidenced motivation as being proper because the references are of the same field of endeavor, namely XML document processing. Additionally, it is noted that both the Buford

Art Unit: 2162

and North references are concerned with modeling information as DTDs, as noted in the motivational statement set forth in the previous action, and thus Buford would have reason to look to the teachings of North.

For at least these reasons, the Office asserts the rejections of the claims as set forth below.

Claim Objections

3. Claim 3 is objected to because of the following informalities:

Claim 3 appears to contain a grammatical error in lines 2-3, which states "wherein the decoding method comprising the steps of" (Was "comprises" meant?)

Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claim 9 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Art Unit: 2162

To be statutory, a claimed computer-related process must either: (A) result in a physical transformation outside the computer for which a practical application is either disclosed in the specification or would have been known to a skilled artisan, or (B) be limited to a practical application with useful, concrete and tangible result.

A practical application can be either physical transformation or a useful, concrete and tangible result.

Regarding independent claim 9: It appears that this claim is incorporating a signal as a type of computer readable medium. The punctuation of the claim makes it unclear. The Office is interpreting the claim to read that the claimed data transmission system includes a "signal comprising ... an encoder and a decoder". Such an interpretation is deemed reasonable, as evidenced by the recitation beginning on line 10 of the claim and indicating that the "signal includes ... an encoded description element ...". It is unclear how a signal may "include" an encoded description element. Signals are phenomena that may be modulated such that a signal sample point may represent certain information at a discrete point in time. Thus the claim is attempting to impart a storage capability into a signal component. Additionally, line 14 recites that the identification information is "usable", indicating that the claim is directed to a non-operable state.

Claim 9 is not patent eligible because the invention recited therein does not produce a useful, concrete and tangible result.

Art Unit: 2162

Claim Rejections - 35 USC § 112

Page 7

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 1-2, 5, 7 and 9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding independent claim 1: The amended language indicates that at least two control bits are required. However, the description at page 18 line 25 through page 19 line 1, seems to indicate that both the key value and each index value require sets of control bits. See especially, page 19 lines 33-34 stating: "All keys and indexes are integer values coded using a variable number of bytes." (This is also reflected in the discussion starting at paragraph [0165] of PG Pub 2002/0138517). Thus it appears that at least four control bits are required (two for a key and two for at least one index), and that only one set of control bits would not produce a working result of Applicant's subject matter, as described in the specification.

Independent claims 5 and 9 include substantially similar claim language, and are therefore likewise rejected.

Art Unit: 2162

Claims 2 and 7 depend upon claims 1 and 5, respectively, and are therefore likewise rejected.

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claim 3 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding independent claim 3: There appears to be missing essential steps/elements in this claim. The preamble is directed to decoding a "binary" fragment, yet the body of the claim contains no recitation directed to a "binary" element (or the generation of such an element). Additionally, the preamble is directed to "decoding", yet there is no recited decoding step in the body of the claim. Thus, scope of the claim is unclear.

Regarding independent claim 9: It appears that this claim is incorporating a signal as a type of computer readable medium. The punctuation of the claim makes it unclear. The Office is interpreting the claim to read that the claimed data transmission system includes a "signal comprising ... an encoder and a decoder". Such an interpretation is deemed reasonable, as evidenced by the recitation beginning on line 10 of the claim and indicating that the "signal includes ... an encoded description element ...". It is unclear how a signal may "include" an

Art Unit: 2162

encoded description element. Signals are phenomena that may be modulated such that a signal sample point may represent certain information at a discrete point in time. Thus the claim appears to be attempting to impart a storage capability into a signal "component" that merely provides a data transfer conduit to a decoder element. Additionally, the claim does not set forth a structure that positively recites the structure of the system (i.e., no recitation indicating that the signal element connects the encoder and decoder via modem components, for example). As such, there appears to be missing steps/essential elements. Additionally, line 14 recites that the identification information is "usable", indicating that the claim is directed to a non-operable state. Additionally, there is a lack of antecedent basis for the phrase "said binary fragment" of lines 14-25. It is noted that line 10 recites "at least one binary fragment", and thus it is unclear which binary fragment (in the case of 2 or more) is being referenced by lines 14-15. Thus, scope of the claim is unclear.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2162

Buford et al (International Application No. PCT/US97/04574, filed Mar. 17, 1997 and published as International Publication No. WO 97/34240 on Sep. 18, 1997, hereafter referred to as "Buford") in view of Martin, Bruce, et al., editors, ("WAP Binary XML Content Format", W3C NOTE 24, June 1999, pp. 1-22, (downloaded from: www.w3.org/TR/wbxml/), hereafter referred to as "Bruce"). Note that Simon North et al. (Sam's Teach Yourself XML in 21 Days, Sam's Publishing, Indianapolis, IN, Mar. 1999, p. 105, hereafter referred to as "North") has been used to provide evidence that schemas and DTDs were obvious variants to one skilled in the art at the time of Applicant's subject matter.

Regarding independent claim 1, Buford discloses: An encoding method for encoding a description element of an instance of a markup language schema defining a hierarchical structure of description elements, said hierarchical structure comprising hierarchical levels, parent description elements and child description elements, said description element to be encoded comprising a content (See Buford page 9 lines 17-20 and page 11 lines 19-24, teaching the encoding of description elements modeled as a tree hierarchy), wherein the method includes the steps of: providing a table derived form said schema, said table containing identification information for solely identifying each description element in a hierarchical level, and structural information for retrieving any child description element from its parent description element, (See Buford page 9 lines 19-24 n the context of page 11 line 19 – page 12 line 4, teaching the use of tables containing description element information organized in a hierarchical, i.e., parent-child, relationship.) scanning a hierarchical memory representation of said instance

Art Unit: 2162

from parent description elements to child description elements until reaching the description element to be encoded, and retrieving the identification information of each scanned description element, (See Buford Abstract and p. 9 lines 20-24, discussing parsing of a tree data model.) encoding said description element to be encoded as a fragment comprising said content and a sequence of the retrieved identification information (See Buford Abstract and page 9 lines 17-26, discussing the storage of parse tree data in compressed and indexable form.) and transmitting said encoded description element. (See Buford Abstract, discussing the transfer of a compact representation of a document to a client computer.)

However, Buford does not explicitly teach the remaining limitations as claimed. Bruce, though, discloses wherein said binary fragment includes at least two control bits; (See Bruce Table 3 of page 10, showing the use of bits 6 and 7 indicating the meaning of the data following.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Bruce for the benefit of Buford, because to do so would have allowed a system designer to reduce the transmission size of XML documents allowing more effective use of narrowband communication channels, as taught by Bruce in the section entitled "Abstract" on p. 2. These references were all applicable to the same field of endeavor, i.e., XML document processing.

It is further noted that Buford makes use of DTDs to model data. It was well known at the time of the Applicant's subject matter that DTDs were an obvious variant of schemas, as

Art Unit: 2162

evidenced in North at the page 105 section entitled "Developing the DTD", which states: "There are many ways to describe information models, technically known as schemas. ... One such schema is the XML DTD ...".

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of North for the benefit of Buford in view of Bruce, because to do so would have allowed a programmer to model information, as taught by North in the section entitled "Developing the DTD" on p. 105. These references were all applicable to the same field of endeavor, i.e., XML document processing.

Regarding claim 2, Buford discloses: characterized in that when a description element is defined ... as possibly having multiple occurrences, said table further comprises for said description element an occurrence information for indicating that said description element may have multiple occurrences in an instance, and when an occurrence having a given rank is scanned during the encoding, the corresponding retrieved identification information is indexed with said rank. (See Buford Fig. 4 and page 20 lines 15-28, discussing the use of table entries and the index and proper position of objects within a table.)

Claim 5 is substantially similar to claim 1, and therefore likewise rejected.

Claim 7 is directed to a computer system for implementing the system of claim 5. As such, this claim is substantially similar to claim 5, and therefore likewise rejected.

Art Unit: 2162

Regarding independent claim 9, Buford discloses: A data transmission system, the data transmission system includes a signal transmitted over a transmission network comprising an encoder and a decoder having a memory storing at least one table derived from a markup language (Abstract, Fig. 1, p. 4 lines 1-21) schema, said markup language schema defining a hierarchical structure of description elements (Abstract in context p. 9 lines 20-21), said hierarchical structure comprising hierarchical levels, parent description elements and child description elements (Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4), said table containing identification information for solely identifying each description element in a hierarchical level (Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4), and structural information for retrieving any child description element from its parent description element: (See Buford Abstract, Figure 1 and page 9 lines 19-24 in the context of page 11 line 19 - page 12 line 4, teaching the use of tables containing description element information organized in a hierarchical, i.e., parent-child, relationship.) said signal includes at least one fragment representing a content of an encoded description element (Abstract and p. 9 lines 17-21), and a sequence of identification information being associated in said table to said encoded description element and at least one parent description element (Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 16), wherein the sequence of identification information is usable by the decoder as a key to decode the encoded description element. (See Buford Abstract and page 9 lines 17-26 and page 11 line 19 - page 12 line 16, discussing the storage of parse tree data in compressed and indexable form and reconstructing the document.)

Art Unit: 2162

However, Buford does not explicitly teach the remaining limitations as claimed. Bruce, though, discloses wherein said at least one binary fragment includes at least two control bits. (See Bruce Table 3 of page 10, showing the use of bits 6 and 7 indicating the meaning of the data following.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Bruce for the benefit of Buford, because to do so would have allowed a system designer to reduce the transmission size of XML documents allowing more effective use of narrowband communication channels, as taught by Bruce in the section entitled "Abstract" on p. 2. These references were all applicable to the same field of endeavor, i.e., XML document processing.

It is further noted that Buford makes use of DTDs to model data. It was well known at the time of the Applicant's subject matter that DTDs were an obvious variant of schemas, as evidenced in North at the page 105 section entitled "Developing the DTD", which states: "There are many ways to describe information models, technically known as schemas. ... One such schema is the XML DTD ...".

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of North for the benefit of Buford in view of Bruce, because to do so would have allowed a programmer to model information, as taught by North in the section entitled "Developing the DTD" on p. 105. These references were all applicable to the same field of endeavor, i.e., XML document processing.

Art Unit: 2162

Claims 3-4, 6, 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buford et al (International Application No. PCT/US97/04574, filed Mar. 17, 1997 and published as International Publication No. WO 97/34240 on Sep. 18, 1997, hereafter referred to as "Buford") in view of Simon North et al. (Sam's Teach Yourself XML in 21 Days, Sam's Publishing, Indianapolis, IN, Mar. 1999, p. 105, hereafter referred to as "North").

Regarding independent claim 3, Buford discloses: A decoding method for decoding a binary fragment comprising a content and a sequence of identification information (See Buford Abstract, discussing storage and transmission of a compact representation of objects, in the context of page 16 lines 15-20 and page 13 lines 3-7, discussing representation in the smallest number of bits possible.), wherein the decoding method comprising the steps of: using at least one table derived from a markup language schema, said schema defining a hierarchical structure of description elements comprising hierarchical levels, parent description elements and child description elements, said table containing identification information for solely identifying each description element in a hierarchical level, and structural information for retrieving any child description element from its parent description element, (See Buford Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4, discussing representation of data in a hierarchical structure comprised of parent-child nodes and use of an indexing scheme.) scanning said sequence identification information by identification information, (See Buford page 20 lines 15-22, discussing index-based processing.) at each step searching in said table for the description element associated to the

Art Unit: 2162

memory representation of an instance of said schema if not already contained in said hierarchical memory representation, (See Buford p. 18 line 22 – p. 19 line 7, discussing the reconstruction of a document instance from DTD table entries.) adding said content to the description element of said hierarchical memory representation that is associated to the last identification information of said sequence. (See Buford Abstract and p. 19 lines 3-7, discussing the reconstruction of a document instance from DTD table entries.)

Although Buford does not explicitly disclose the use of a schema, it is noted that Buford makes use of DTDs to model data. It was well known at the time of the Applicant's subject matter that DTDs were an obvious variant of schemas, as evidenced in North at the page 105 section entitled "Developing the DTD", which states: "There are many ways to describe information models, technically known as schemas. ... One such schema is the XML DTD ...".

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of North for the benefit of Buford, because to do so would have allowed a programmer to model information, as taught by North in the section entitled "Developing the DTD" on p. 105. These references were all applicable to the same field of endeavor, i.e., XML document processing.

011/00111.0111ampor: 00/002,20

Art Unit: 2162

Regarding claim 4, Buford discloses: characterized in that when a description element is defined in the schema as possibly having multiple occurrences, said table further comprises for said description element an occurrence information for indicating that said description element may have multiple occurrences in an instance, and when said sequence comprises an indexed identification information, said index is interpreted as an occurrence rank for the associated description element, same description element(s) of lower rank(s) being added to said hierarchical memory representation if not already contained in it. (See Buford page 20 lines 15-28, discussing the use of table entries and the index and proper position of objects within a table.)

Claim 6 is substantially similar to claim 3, and therefore likewise rejected.

Claim 8 is directed to a computer system for implementing the system of claim 6. As such, this claim is substantially similar to claim 6, and therefore likewise rejected.

Regarding independent claim 10, Buford discloses: A computer program product comprising a computer useable medium having computer readable program code embodied therein for reporting on performance of a plurality of parameters (See Buford Abstract, in the context of page 16 lines 15-20 and page 13 lines 3-7, teaching storage and transmission and

Art Unit: 2162

reconstruction of a compact representation of objects.), the program product comprising: program code configured to implement a decoder having a table for updating a hierarchical memory representation of an instance of a markup language schema (Abstract in context of p. 9 lines 20-21), said markup language schema defining a hierarchical structure of description elements (Abstract in context of p. 9 lines 20-21), said hierarchical structure comprising hierarchical levels, parent description elements and child description elements (Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4), characterized in that the table is derived from said markup language schema (p. 11 line 19 – p. 12 line 4), and the table contains identification information for solely identifying each description element in a hierarchical level (Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4), and structural information for retrieving any child description element from its parent description element. (See Buford Abstract in context of p. 9 lines 19-24 and p. 11 line 19 - p. 12 line 4. discussing representation of data in a hierarchical structure comprised of parent-child nodes and use of an indexing scheme, page 20 lines 15-22, discussing index-based processing, and page 18 line 22 – page 19 line 7, discussing the reconstruction of a document instance from DTD table entries.)

Although Buford does not explicitly disclose the use of a schema, it is noted that Buford makes use of DTDs to model data. It was well known at the time of the Applicant's subject matter that DTDs were an obvious variant of schemas, as evidenced in North at the page 105 section entitled "Developing the DTD", which states: "There are many ways to describe information models, technically known as schemas. ... One such schema is the XML DTD ...".

Art Unit: 2162

Page 19

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of North for the benefit of Buford, because to do so would have allowed a programmer to model information, as taught by North in the section entitled "Developing the DTD" on p. 105. These references were all applicable to the same field of endeavor, i.e., XML document processing.

Art Unit: 2162

Page 20

Conclusion

13. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2162

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Stevens whose telephone number is (571) 272-4102. The examiner can normally be reached on M-F 6:00 - 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert Stevens Examiner

Art Unit 2162

July 12, 2007